Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1 Claim 1 (original): An information recording method
- comprising the steps of:
- detecting a defect present on an optical disk having
- 4 concentric or spiral tracks when information is recorded on
- said optical disk, and
- 6 changing recording density in response to the value of
- 7 the detection frequency of said defects.
- 1 Claim 2 (original): An information recording method
- 2 comprising the steps of:
- 3 detecting a defect present on an optical disk having
- 4 concentric or spiral tracks when picture information is
- 5 recorded on said optical disk, and
- 6 changing the recording density of the picture
- 7 information and the number of pixels in the picture
- s information per unit time in response to the value of the
- 9 detection frequency of defects.
- 1 Claim 3 (original): An information recording method
- in accordance with claim 1 further comprising the steps of:
- lowering recording density when a first predetermined
- number of defects are detected, and

- raising recording density when the number of defects
- 6 detected in subsequent predetermined period is less than a
- 7 second predetermined number.
- 1 Claim 4 (original): An information recording method
- in accordance with claim 1, wherein a determination is made
- whether said defect is present or absent in response to a
- 4 drop from a predetermined threshold value in the amplitude
- of a signal obtained on the basis of the reflected light of
- 6 a light irradiating said optical disk to record
- 7 information.
- 1 Claim 5 (original): An information recording method
- 2 comprising the steps of:
- 3 irradiating light for recording information on a
- 4 desired track of an optical disk,
- obtaining a detection signal by detecting light
- 6 reflected by said track,
- 7 detecting a defect on the basis of a drop in the level
- 8 of said detection signal from a predetermined threshold
- 9 value, and
- changing recording density in response to said
- 11 detection frequency of defects.

- 1 Claim 6 (original): An information recording method
- 2 in accordance with claim 5, wherein
- said detection frequency of defects is represented by
- 4 the number of defects detected continuously.
- 1 Claim 7 (original): An information recording method
- 2 in accordance with claim 5, wherein said detection
- 3 frequency is represented by the number of defects detected
- 4 per unit time.
- 1 Claim 8 (original): An information recording method
- 2 in accordance with claim 5, wherein said detection
- 3 frequency is represented by a rate of error correction
- 4 blocks having said defect in a predetermined number of
- 5 error correction blocks of said optical disk.
- 1 Claim 9 (original): An information recording method
- in accordance with claim 5, wherein said recording density
- is changed in error correction block units.
- 1 Claim 10 (original): An information recording method
- 2 in accordance with claim 9, wherein an integer number of
- 3 error correction are recorded in an area specified by a
- 4 physical ID disposed at predetermined intervals on said
- 5 optical disk.

- 1 Claim 11 (original): An optical disk recording
- 2 apparatus comprising:
- a defect detection section for detecting a defect
- 4 present on an optical disk having concentric or spiral
- 5 tracks when picture information is recorded on said optical
- 6 disk and for generating a defect determination signal in
- 7 response to the value of the detection frequency of said
- 8 defects,
- a bit rate control section for changing a bit rate of
- 10 recording in response to said defect determination signal,
- 11 and
- a pixel control section for changing the number of
- 13 pixels in said picture information per unit time in
- 14 response to said defect determination signal.
 - 1 Claim 12 (original): An optical disk recording
 - 2 apparatus in accordance with claim 11, wherein said defect
 - 3 detection section generates said defect determination
 - 4 signal when the amplitude of a signal obtained on the basis
 - of the reflection light of light irradiated to said optical
 - 6 disk to record information is a predetermined value and
 - 7 below, and said defect detection section does not generate
- 8 said defect determination signal when the state of the
- 9 amplitude of said signal being larger than said
- 10 predetermined value continues for a predetermined period.

- 1 Claim 13 (original): An optical disk recording
- 2 apparatus in accordance with claim 11, wherein said pixel
- 3 control section has a variable picture filter changeable a
- 4 cut-off frequency, and said cut-off frequency is changed
- 5 depending on said defect determination signal.
- 1 Claim 14 (original): An optical disk recording
- 2 apparatus comprising:
- an optical head having a light source for emitting
- 4 light for recording information on desired tracks of an
- 5 optical disk and a light-receiving device for detecting
- 6 light reflected from said optical disk and outputting a
- 7 detection signal depending on the intensity of the
- 8 reflected light defect detection section for detecting
- 9 defects present on said optical disk in response to the
- 10 level of said detection signal,
- 11 a frequency detection section for obtaining the
- 12 detection frequency of defects detected by said defect
- 13 detection section,
- 14 a bit rate control section for controlling the bit
- 15 rate of information to be recorded on said optical disk in
- 16 response to the frequency obtained by said frequency
- 17 detection section, and
- a pixel control section for changing the number of
- 19 pixels in picture information per unit time in response to
- the control output of said bit rate control section.

- 1 Claim 15 (original): An optical disk recording
- 2 apparatus in accordance with claim 14, wherein said
- 3 frequency detection section is an SR flip-flop circuit.
- 1 Claim 16 (new): An information recording method
- comprising the steps of:
- 3 <u>detecting a defect present on an optical disk having</u>
- 4 concentric or spiral tracks on which a picture signal is
- 5 recorded, and
- 6 lowering recording bit rate of the picture signal when
- 7 the defect is detected in a proper time period.
- 1 Claim 17 (new): An optical disk recording apparatus
- 2 comprising:
- a defect detection section for detecting a_defect
- 4 present on an optical disk having concentric or spiral
- 5 tracks on which a picture signal is recorded,
- a bit rate control section for lowering a bit rate of
- 7 the recording picture signal when the defect is detected in
- 8 a proper time period.
- 1 <u>Claim 18 (new): An optical disk recording apparatus</u>
- 2 in accordance with claim 17, wherein further comprising a
- 3 pixel control section for changing the number of pixels of
- 4 said picture when the defect is detected.